MassDEP Field Assessment and Support Team (FAST)

Framingham – General Chemical Facility

August 6, 2012

Air Monitoring During Initial Scarification Operations















Background

On August 6, 2012, the MassDEP FAST Mobile Laboratory was deployed to the General Chemical facility on Leland Street in Framingham, to monitor air quality during the initiation of scarification operations in Building No, 1. The laboratory arrived at the site at about 10:45 AM, and departed at the cessation of cleanup activities for the day, at about 6:15 PM.

While scarification of the concrete floor was occurring in Building No. 1, power-washing activities were being implemented in various areas to the east. A tent was initially used to contain the spray from the power washing operations near the fence-line; later in the afternoon, work done in more central ("Loading Rack") areas was not done under a tent.

A tiered air monitoring program was instituted by MassDEP to evaluate remedial air emissions:

- MassDEP personnel would periodically survey property locations with a hand-held photoionization detector (PID), to determine concentrations of Volatile Organic Compounds (VOCs).
- Four stationary AreaRAE monitors were positioned around the facility, designated as DEP-1, DEP-2, DEP-3, and DEP-4 on Figure 1. Each of these units was equipped with a 10.6 eV photoionization detector (PID), which continuously transmitted data every 2 seconds to a receiving unit located in the mobile laboratory. Each AreaRAE monitor was programmed to alarm if a value of 0.1 ppmV was exceeded (the lowest setting for these units).
- A Thermo/MIE pDR-1500 monitor was set up on the southeasterly (downwind) area of the site, to provide real-time measurements of dust and aerosol concentrations in the ambient air.
- Over the course of the day, air samples were obtained in 1 liter bags at 8 different locations on the property, based upon cleaning activities, wind direction, PID readings, or odor conditions. Each of these samples was promptly analyzed on a HAPSITE Gas Chromatograph with a Mass Spectrometer (GC/MS) in the mobile laboratory.

In addition to activities by MassDEP, personnel from Prime Engineering were monitoring air emissions with 3 dust monitors and two PID meters. Air sampling canisters were also positioned at the upwind and downwind fence-lines to obtain time-weighted samples for analysis by EPA Method TO-15.

Weather Conditions

It was a warm and sunny day, with temperatures above 80° F. Regional winds were 5-10 MPH from the west throughout the day. Data from the 10-meter high weather station on the mobile laboratory recorded wind speeds of 4-8 MPH, with winds from the west/northwest. Given the presence of a variety of structures and canopies at the facility, however, localized and transient near-ground-surface eddies may have further influenced air flow and contaminant transport patterns.



Figure 1 - Location of MassDEP AreaRAEs and Air Samples

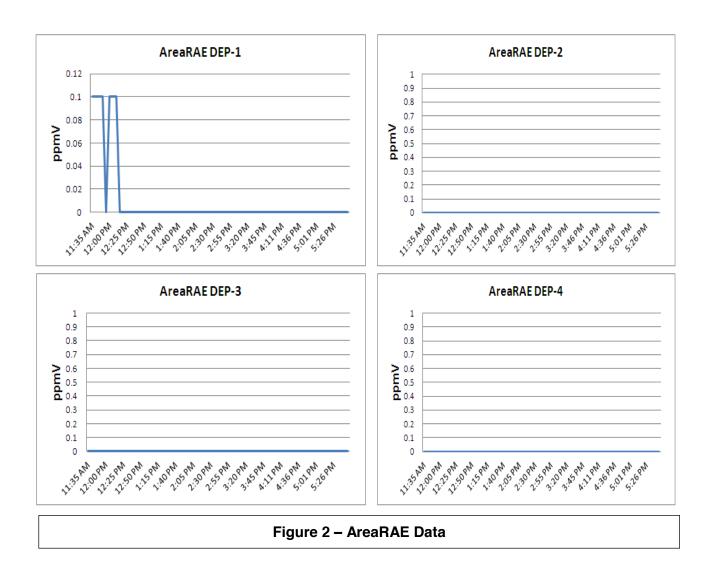
Results

Time-weighted-average readings (60 seconds) on the downwind dust and aerosol monitor were 0 μ g/m³ throughout the day. Volatile Organic Compound (VOC) data from the PID sensor on the four AreaRAE units are presented in Figure 2. GC/MS data from the 8 discrete air samples are presented in Table 1.

Discussion

As can be seen in Figure 2, there were initial low-level positive PID responses (0.1 ppmV) on AreaRAE DEP-1. At the time of these readings, DEP-1 was temporarily positioned on the northeasterly fence-line, near the ultimate location of DEP-3 (see Figure 1). After a hand held MSA PID meter verified these low level detections, a 1 liter air sample (# 002) was obtained and promptly analyzed on the HAPSITE GC/MS. As shown in Table 1, this sample contained low levels (< 2 ppbV) of Tetrachloroethylene, Styrene, and Toluene, below fence-line action levels.

DEP-1 was subsequently moved to an upwind position, and DEP-3 was placed in this northeasterly area of the site. All subsequent readings for DEP-1, and all readings for the other AreaRAE units, were 0 ppmV throughout the work day.



As can be seem in Table 1, only low or trace concentrations of VOCs were detected in the 1 Liter air samples obtained at the site. Unlike earlier efforts, there were no significant chromatographic peaks indicating the presence of non-target analytes (e.g., Cyclohexane).

Individual data reports are appended to this report.

Summary and Conclusions

A multi-tiered air monitoring program was conducted by MassDEP personnel over the course of invasive cleaning activities at the site, during a time period when scarification activities were being initiated in Building No. 1, and power washing was occurring in other areas of the site.

There were not significant levels of VOCs or dust noted at the site during these activities.

| | 001 | 002 | 003 | 004 | 005 | 007 | 008 | 009 | |
|--------------------------------|------------------------|-------------------|-------------------|-----------------------|-----------------------|-------------------------|-------------------|----------------------|-----------------|
| Analyte ² | 11:20 AM | 12:10 PM | 12:35 PM | 1:02 PM | 1:45 PM | 2:50 PM | 3:30 PM | 4:10 PM | RL ³ |
| Allalyte | SE Side of Facility | Near AreaRAE 3 | Near AreaRAE 4 | Outside Bldg No, 1 | Near AR-3 and Tent | 50 ft east of tank farm | SE corner of site | Loading Rack area | IXE |
| Vinyl Chloride | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 5 |
| Chloroethane ⁴ | N.D. | N.D. | N.D. | N.D. | N.D. | 3.9 | N.D. | N.D. | 5 |
| Trichloromonofluoromethane | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 30 |
| 1,1-Dichloroethene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| Methylene Chloride | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| 1,1,2-Trichlorotrifluoroethane | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| Cis 1,2-Dichloroethylene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| Chloroform | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| 1,2-Dichloroethane | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 5 |
| 1,1,1-Trichloroethane | N.D. | N.D. | N.D. | N.D. | N.D. | 0.2 | N.D. | N.D. | 1 |
| Benzene | N.D. | N.D. | N.D. | 0.3. | N.D. | N.D. | N.D. | N.D. | 1 |
| Carbon Tetrachloride | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| Trichloroethylene | N.D. | N.D. | N.D. | N.D. | N.D. | 0.6 | N.D. | N.D. | 1 |
| 1,1,2-Trichloroethane | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| Toluene | 0.6 | 0.9 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.7 | 1 |
| Tetrachloroethylene | 0.4 | 1.9 | 0.4 | N.D. | N.D. | 0.6 | N.D. | N.D. | 1 |
| Chlorobenzene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| Ethylbenzene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| p/m-Xylene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| Styrene | 9.9 | 1.6 | 2.0 | 0.5 | 0.8 | 1.1 | 1.0 | 0.8 | 1 |
| o-Xylene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 1 |
| 1,2-Dichlorobenzene (ortho) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 5 |
| 1,2,4-Trichlorobenzene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 5 |
| HexachloroButadiene | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | 5 |
| Cyclohexane ⁵ | | | | | | | | | NA |
| Hexane ⁵ | | | | | | | | | NA |
| 2-Methylheptane ⁵ | | | | | | | | | NA |

Table 1 - Footnotes

- ¹N.D. = Not Detected; italicized values are estimated concentrations less than the Reporting Limit ²Purple Shaded rows are chemicals that were reportedly formerly stored at the facility
- ³RL = Analytical Reporting Limit (i.e., the minimum concentration that a contaminant can be reliably *quantified* lower levels can be *detected*, but their concentrations can only be estimated)
- ⁴Chloroethane is often found in air sampling bags analyzed by the HAPSITE GC/MS, and is thought to be a sampling bag or system contaminant, and therefore not present or present at lower levels
- ⁵Orange shaded rows are chemicals that are not method analytes, but are tentatively identified by their mass spectra, and roughly quantified based upon the response of an internal standard
- ⁶NA = Not Applicable

| MassDEP Fie | ld Assessmen | t and Sup | port Team | ı (FAST) | AIR S | CREENING | DATA | RTN: | 3-19174 |
|-------------------|----------------|------------|-------------------|----------------|-------------------|--------------|----------------|-------------|-------------------|
| City or Town: | Framingham | | Address: | 133 Lelai | nd Street | | | | Location: |
| Date Sampled: | 8/6/12 | Time: | 11:20 AM | Field ID: | SE site | Collector: | Fitzgerald | i | |
| Date Analyzed: | 8/6/12 | Time: | 11:40 AM | Lab ID: | 001 | Analyst: | Fitzgerald | i | |
| Method Analy | tos | Conce | ntration | Reporti | ng Limit | Peak Fit | Peak | | Cunonum |
| Method Analy | tes | ppbV | μg/m ³ | ppbV | μg/m ³ | Peak Fit | Purity | ` | Synonym |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0.719 | 0.024 | Chloroe | thene |
| Bromomethane | | N.D. | N.D. | 5 | 22 | 0.955 | 0.014 | Methyl | Bromide |
| Chloroethane | | N.D. | N.D. | 5 | 23 | 0.992 | 0.041 | Ethyl C | hloride |
| Trichloromonofl | uoromethane | N.D. | N.D. | 30 | 210 | 0.785 | 0.034 | Freon 1 | 1 |
| 1,1-Dichloroeth | ene | N.D. | N.D. | 1 | 4 | 0 | 0 | Vinylide | ne Chloride |
| Methylene Chlo | oride | N.D. | N.D. | 1 | 3.5 | 0 | 0 | Dichloro | methane |
| 1,1,2-Trichlorot | rifluoroethane | N.D. | N.D. | 1 | 7.7 | 0.863 | 0.035 | Freon 1 | 13 |
| 1,1-Dichloroeth | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | |
| Cis 1,2-Dichlor | oethylene | N.D. | N.D. | 1 | 4 | 0.886 | 0.042 | cis-1,2- | Dichloroethene |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0.927 | 0.049 | Trichlor | omethane |
| 1,2-Dichloroeth | ane | N.D. | N.D. | 5 | 20 | 0.963 | 0.012 | Ethylen | e Dichloride |
| 1,1,1-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0.886 | 0.042 | Methyl | Chloroform |
| Benzene | | N.D. | N.D. | 1 | 3.2 | 0.946 | 0.09 | | |
| Carbon Tetrach | loride | N.D. | N.D. | 1 | 6.3 | 0.851 | 0.011 | Tetrach | loromethane |
| 1,2-Dichloropro | pane | N.D. | N.D. | 1 | 4.6 | 0.508 | 0.107 | Propyle | ne Dichloride |
| Trichloroethyler | ne | N.D. | N.D. | 1 | 5.4 | 0.989 | 0.238 | Trichlor | oethene |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| trans-1,3-Dichlo | propropene | N.D. | N.D. | 1 | 4.5 | 0.774 | 0.041 | | |
| 1,1,2-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | |
| Toluene | | 0.6 | 2.2 | 1 | 3.8 | 0.997 | 0.501 | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethylen | e Dibromide |
| Tetrachloroethy | lene | 0.4 | 2.9 | 1 | 6.8 | 0.95 | 0.584 | Perchlo | roethylene |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.965 | 0.183 | | |
| p/m-Xylene (se | e note) | N.D. | N.D. | 1 | 4.3 | 0.902 | 0.153 | | |
| Styrene | | 9.9 | 42.2 | 1 | 4.3 | 0.998 | 0.633 | Vinyl be | enzene |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.994 | 0.263 | | |
| 1,1,2,2-Tetrach | loroethane | N.D. | N.D. | 5 | 34 | 0 | 0 | | |
| 1,3,5-Trimethyll | benzene | N.D. | N.D. | 5 | 25 | 0.994 | 0.198 | Mesityl | ene |
| 1,2,4-Trimethyll | benzene | N.D. | N.D. | 5 | 25 | 0.994 | 0.198 | | |
| 1,3-Dichlorober | zene (meta) | N.D. | N.D. | 5 | 30 | 0 | 0 | m- Dicl | nlorobenzene |
| 1,2-Dichlorober | , , | N.D. | N.D. | 5 | 30 | 0 | 0 | o – Dicl | nlorobenzene |
| 1,4-Dichlorober | zene (para) | N.D. | N.D. | 5 | 30 | 0 | 0 | p – Dicl | nlorobenzene |
| 1,2,4-Trichlorob | | N.D. | N.D. | 5 | 37 | 0 | 0 | | |
| HexachloroButa | adiene | N.D. | N.D. | 5 | 53 | 0 | 0 | | |
| Concentration f | or combined p- | & m- Xylen | es could be | up to twice | the listed | value, due | to co-elutior | conditio | ins. |
| Instrument: HAP | SITE Smart Plu | s GC/MS | Quality Contr | rol: 3-6 point | cal w/ %RS | D<30, Intern | al Stds, daily | blank, dail | y cal check |
| N.D. = Not Detec | | | | | | | | | libration: 3/31/1 |
| Peak Fit=agreemer | | | | | | | | 0.85 very | likely match |
| COMMENTS: | | | , | | | | | , | |
| | | | | | | | | | |

| | _ | | | | | CREENING | | | |
|------------------|----------------|------|----------|-----------|-------------------|--------------|------------|----------|------------------|
| | Framingham | | Address: | 133 Lelai | | | | | Location: |
| Date Sampled: | 8/6/12 | | 12:10 PM | | AR-3 | Collector: | - | | Near Area |
| Date Analyzed: | 8/6/12 | | 12:16 PM | Lab ID: | 002 | Analyst: | Fitzgerald | i | RAE #3 |
| Method Analy | tes | | ntration | Reporti | | Peak Fit | Peak | | Synonym |
| | | ppbV | μg/m³ | ppbV | μg/m ³ | | Purity | | |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0.835 | 0.052 | Chloroe | |
| Bromomethane | | N.D. | N.D. | 5 | 22 | 0.55 | 0.013 | _ | Bromide |
| Chloroethane | | N.D. | N.D. | 5 | 23 | 0.743 | 0.032 | Ethyl C | |
| Trichloromonofl | uoromethane | N.D. | N.D. | 30 | 210 | 0.821 | 0.037 | Freon 1 | |
| 1,1-Dichloroeth | ene | N.D. | N.D. | 1 | 4 | 0 | 0 | Vinylide | ene Chloride |
| Methylene Chlo | | N.D. | N.D. | 1 | 3.5 | 0.858 | 0.048 | Dichlor | omethane |
| 1,1,2-Trichlorot | rifluoroethane | N.D. | N.D. | 1 | 7.7 | 0.744 | 0.051 | Freon 1 | 13 |
| 1,1-Dichloroeth | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | |
| Cis 1,2-Dichlor | oethylene | N.D. | N.D. | 1 | 4 | 0 | 0 | cis-1,2- | Dichloroethen |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0 | 0 | Trichlor | omethane |
| 1,2-Dichloroeth | ane | N.D. | N.D. | 5 | 20 | 0.884 | 0.007 | Ethyler | ne Dichloride |
| 1,1,1-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | Methyl | Chloroform |
| Benzene | | N.D. | N.D. | 1 | 3.2 | 0.856 | 0.075 | | |
| Carbon Tetrach | loride | N.D. | N.D. | 1 | 6.3 | 0.993 | 0.074 | Tetrach | loromethane |
| 1,2-Dichloropro | pane | N.D. | N.D. | 1 | 4.6 | 0 | 0 | Propyle | ne Dichloride |
| Trichloroethyler | ne | N.D. | N.D. | 1 | 5.4 | 0.865 | 0.082 | Trichlor | oethene |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| trans-1,3-Dichlo | ropropene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| 1,1,2-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | |
| Toluene | | 0.9 | 3.3 | 1 | 3.8 | 0.999 | 0.6 | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethyler | ne Dibromide |
| Tetrachloroethy | lene | 1.9 | 12.7 | 1 | 6.8 | 0.975 | 0.879 | Perchlo | roethylene |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | - |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.995 | 0.226 | | |
| p/m-Xylene (se | e note) | N.D. | N.D. | 1 | 4.3 | 0.994 | 0.229 | | |
| Styrene | | 1.6 | 6.6 | 1 | 4.3 | 0.999 | 0.559 | Vinyl b | enzene |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.892 | 0.13 | | |
| 1,1,2,2-Tetrach | loroethane | N.D. | N.D. | 5 | 34 | 0 | 0 | | |
| 1,3,5-Trimethyl | | N.D. | N.D. | 5 | 25 | 0.855 | 0.132 | Mesityl | ene |
| 1,2,4-Trimethyl | | N.D. | N.D. | 5 | 25 | 0.965 | 0.184 | | |
| 1,3-Dichlorober | | N.D. | N.D. | 5 | 30 | 0 | 0 | m- Dic | hlorobenzene |
| 1,2-Dichlorober | . , | N.D. | N.D. | 5 | 30 | 0 | 0 | o – Dic | hlorobenzene |
| 1,4-Dichlorober | · / | N.D. | N.D. | 5 | 30 | 0 | 0 | p – Dic | hlorobenzene |
| 1,2,4-Trichlorob | VI / | N.D. | N.D. | 5 | 37 | 0 | 0 | | |
| HexachloroButa | | N.D. | N.D. | 5 | 53 | 0 | 0 | | |
| Concentration f | | | | | | | | conditio | ns. |
| nstrument: HAP | | | | | | | | | daily cal check |
| N.D. = Not Dete | | | | | | | | | libration: 3/31/ |
| | | | | | | mpounds. Fit | | | |

| Massucr Fie | ld Assessmen | CREENING DATA RT | | | 3-19174 | | | | |
|------------------------------|--------------------|------------------|----------------|----------------|-------------------|---------------|----------------|------------|-------------------|
| City or Town: | Framingham | 1 | Address: | 133 Lela | nd Street | | | | Location: |
| Date Sampled: | 8/6/12 | Time: | 12:35 PM | Field ID: | AR-4 | Collector: | Fitzgerald | i | Near Area |
| Date Analyzed: | 8/6/12 | Time: | 12:48 PM | Lab ID: | 003 | Analyst: | Fitzgerald | ı | RAE #4 |
| | | Conce | ntration | Reporti | ng Limit | D 150 | Peak | | 2 |
| Method Analy | tes | ppbV | μg/m³ | ppbV | μg/m ³ | Peak Fit | Purity | , | Synonym |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0.703 | 0.015 | Chloroe | thene |
| Bromomethane | | N.D. | N.D. | 5 | 22 | 0.987 | 0.02 | Methyl | Bromide |
| Chloroethane | | N.D. | N.D. | 5 | 23 | 0.754 | 0.06 | Ethyl C | hloride |
| Trichloromonofl | uoromethane | N.D. | N.D. | 30 | 210 | 0 | 0 | Freon 1 | 1 |
| 1,1-Dichloroeth | ene | N.D. | N.D. | 1 | 4 | 0.578 | 0.018 | Vinylide | ene Chloride |
| Methylene Chlo | oride | N.D. | N.D. | 1 | 3.5 | 0 | 0 | Dichlor | omethane |
| 1,1,2-Trichlorot | rifluoroethane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Freon 1 | 13 |
| 1,1-Dichloroeth | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | |
| Cis 1,2-Dichlor | oethylene | N.D. | N.D. | 1 | 4 | 0 | 0 | cis-1,2- | Dichloroethene |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0.995 | 0.031 | Trichlor | omethane |
| 1,2-Dichloroeth | ane | N.D. | N.D. | 5 | 20 | 0 | 0 | Ethyler | e Dichloride |
| 1,1,1-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | Methyl | Chloroform |
| Benzene | | N.D. | N.D. | 1 | 3.2 | 0 | 0 | | |
| Carbon Tetrach | loride | N.D. | N.D. | 1 | 6.3 | 0.954 | 0.076 | Tetrach | loromethane |
| 1,2-Dichloropro | pane | N.D. | N.D. | 1 | 4.6 | 0 | 0 | Propyle | ne Dichloride |
| Trichloroethyler | ne . | N.D. | N.D. | 1 | 5.4 | 0.913 | 0.249 | Trichlor | oethene |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| trans-1,3-Dichlo | propropene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| 1,1,2-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | |
| Toluene | | 0.5 | 1.9 | 1 | 3.8 | 0.945 | 0.456 | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethyler | ie Dibromide |
| Tetrachloroethy | lene | 0.4 | 2.5 | 1 | 6.8 | 0.953 | 0.586 | Perchlo | roethylene |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.977 | 0.161 | | |
| p/m-Xylene (se | e note) | N.D. | N.D. | 1 | 4.3 | 0.961 | 0.214 | | |
| Styrene | | 2.0 | 8.5 | 1 | 4.3 | 0.999 | 0.597 | Vinyl b | enzene |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.971 | 0.216 | | |
| 1,1,2,2-Tetrach | | N.D. | N.D. | 5 | 34 | 0.921 | 0.029 | | |
| 1,3,5-Trimethyl | | N.D. | N.D. | 5 | 25 | 0.971 | 0.186 | Mesityl | ene |
| 1,2,4-Trimethyl | | N.D. | N.D. | 5 | 25 | 0.997 | 0.249 | | |
| 1,3-Dichlorober | , , | N.D. | N.D. | 5 | 30 | 0 | 0 | | hlorobenzene |
| 1,2-Dichlorober | . , | N.D. | N.D. | 5 | 30 | 0 | 0 | | hlorobenzene |
| 1,4-Dichlorober | | N.D. | N.D. | 5 | 30 | 0 | 0 | p – Dic | hlorobenzene |
| 1,2,4-Trichlorob | | N.D. | N.D. | 5 | 37 | 0 | 0 | | |
| HexachloroButa | | N.D. | N.D. | 5 | 53 | 0 | 0 | | |
| ¹ Concentration f | or combined p- | & m- Xylen | es could be | up to twice | e the listed | value, due | to co-elution | n conditio | ons. |
| Instrument: HAP | SITE Smart Plu | is GC/MS | Quality Contr | rol: 3-6 point | cal w/ %RS | SD<30, Intern | al Stds, daily | blank, dai | ly cal check |
| N.D. = Not Dete | cted Italicized | = estimate | d "J" value (d | concentrati | on is less t | than Report | ting Limit). | Last Ca | libration: 3/31/1 |
| Peak Fit=agreemer | nt w/ spectral dat | abase; Peak | Purity=interfe | erence from | coeluting co | mpounds. Fit | >0.5 likely, > | 0.85 very | likely match |
| COMMENTS: | | | | | | | | | |
| | | | | | | | | | |

| MassDEP FIE | ld Assessmer | nt and Sup | port Tean | ı (FAST) | AIR S | CREENING | DATA | RTN: | 3-19174 | |
|--|--------------------|--------------|----------------|---------------|---------------|--------------|-----------------|----------|------------------|--|
| City or Town: | Framingham | 1 | Address: | 133 Lelai | nd Street | | | | Location: | |
| Date Sampled: | 8/6/12 | Time: | 1:02 PM | Field ID: | B-1 | Collector: | Fitzgerald | i | Outside Bldg | |
| Date Analyzed: | 8/6/12 | Time: | 1:20 PM | Lab ID: | 004 | Analyst: | Fitzgerald | i | No. 1 | |
| | | Concer | ntration | Reportir | ng Limit | Peak Fit | Peak | | D | |
| Method Analy | tes | ppbV | μg/m³ | ppbV | μg/m³ | Peak Fit | Purity | , | Synonym | |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0.671 | 0.018 | Chloroe | thene | |
| Bromomethane |) | N.D. | N.D. | 5 | 22 | 0.958 | 0.02 | Methyl | Bromide | |
| Chloroethane | | N.D. | N.D. | 5 | 23 | 0.687 | 0.026 | Ethyl C | hloride | |
| Trichloromonofl | uoromethane | N.D. | N.D. | 30 | 210 | 0.95 | 0.052 | Freon 1 | 1 | |
| 1,1-Dichloroeth | ene | N.D. | N.D. | 1 | 4 | 0 | 0 | Vinylide | ene Chloride | |
| Methylene Chlo | oride | N.D. | N.D. | 1 | 3.5 | 0 | 0 | Dichlor | omethane | |
| 1,1,2-Trichlorot | rifluoroethane | N.D. | N.D. | 1 | 7.7 | 0.841 | 0.057 | Freon 1 | 13 | |
| 1,1-Dichloroeth | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | | |
| Cis 1,2-Dichlor | oethylene | N.D. | N.D. | 1 | 4 | 0 | 0 | cis-1,2- | Dichloroethen | |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0 | 0 | Trichlor | omethane | |
| 1,2-Dichloroeth | ane | N.D. | N.D. | 5 | 20 | 0 | 0 | Ethyler | e Dichloride | |
| 1,1,1-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | Methyl | Chloroform | |
| Benzene | | 0.3 | 1.1 | 1 | 3.2 | 0.951 | 0.261 | | | |
| Carbon Tetrach | loride | N.D. | N.D. | 1 | 6.3 | 0.947 | 0.086 | Tetrach | loromethane | |
| 1,2-Dichloropro | pane | N.D. | N.D. | 1 | 4.6 | 0 | 0 | Propyle | ne Dichloride | |
| Trichloroethyler | ne | N.D. | N.D. | 1 | 5.4 | 0 | 0 | Trichlor | oethene | |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | | |
| rans-1,3-Dichlo | propropene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | | |
| 1,1,2-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | | |
| Toluene | | 0.5 | 1.9 | 1 | 3.8 | 0.986 | 0.524 | | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethyler | e Dibromide | |
| Tetrachloroethy | lene . | N.D. | N.D. | 1 | 6.8 | 0.737 | 0.22 | Perchlo | roethylene | |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | | |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.993 | 0.193 | | | |
| o/m-Xylene (se | e note) | N.D. | N.D. | 1 | 4.3 | 0.998 | 0.317 | | | |
| Styrene | | 0.5 | 2.2 | 1 | 4.3 | 1 | 0.454 | Vinyl b | enzene | |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.986 | 0.206 | | | |
| 1,1,2,2-Tetrach | | N.D. | N.D. | 5 | 34 | 0 | 0 | | | |
| 1,3,5-Trimethyl | | N.D. | N.D. | 5 | 25 | 0.919 | 0.155 | Mesityl | ene | |
| 1,2,4-Trimethyl | | N.D. | N.D. | 5 | 25 | 0.962 | 0.181 | | | |
| 1,3-Dichlorober | , , | N.D. | N.D. | 5 | 30 | 0 | 0 | | nlorobenzene | |
| 1,2-Dichlorober | , , | N.D. | N.D. | 5 | 30 | 0 | 0 | | nlorobenzene | |
| 1,4-Dichlorober | 4 7 | N.D. | N.D. | 5 | 30 | 0 | 0 | p – Dic | hlorobenzene | |
| 1,2,4-Trichlorob | | N.D. | N.D. | 5 | 37 | 0 | 0 | | | |
| HexachloroBut | adiene | N.D. | N.D. | 5 | 53 | 0 | 0 | | | |
| Concentration f | or combined p- | & m- Xylen | es could be | up to twice | the listed | value, due t | to co-elution | conditio | ns. | |
| nstrument: HAP | SITE Smart Plu | ıs GC/MS | Quality Cor | ntrol: 3-6 po | int cal w/ 9 | 6RSD<30, I | Int Stds, dail | y blank, | daily cal check | |
| N.D. = Not Dete | cted Italicized | = estimated | _ | - | | | | | libration: 3/31/ | |
| Peak Fit=agreeme | nt w/ spectral dat | tabase; Peak | Purity=interfe | rence from o | coeluting cor | mpounds. Fit | >0.5 likely, >0 | .85 very | ikely match | |
| Peak Fit=agreement w/ spectral database; Peak Purity=interference from coeluting compounds. Fit >0.5 likely, >0.85 very likely match | | | | | | | | | | |

| MassDEP Fie | ld Assessmen | t and Sup | port Tean | n (FAST) | AIR S | CREENING | DATA | RTN: | 3-19174 |
|-------------------|----------------|------------|--------------|----------------|--------------|---------------|----------------|------------|-------------------|
| City or Town: | Framingham | l | Address: | 133 Lelai | nd Street | | | | Location: |
| Date Sampled: | 8/6/12 | Time: | 1:45 PM | Field ID: | AR-3(2) | Collector: | Immerma | n | Near AR-3 |
| Date Analyzed: | 8/6/12 | Time: | 1:58 PM | Lab ID: | 005 | Analyst: | Fitzgerald | i | and tent |
| | | Concer | ntration | Reporti | ng Limit | David Cit | Peak | | C |
| Method Analy | tes | ppbV | μg/m³ | ppbV | μg/m³ | Peak Fit | Purity | ' | Synonym |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0.962 | 0.015 | Chloroe | thene |
| Bromomethane | | N.D. | N.D. | 5 | 22 | 0.774 | 0.014 | Methyl | Bromide |
| Chloroethane | | N.D. | N.D. | 5 | 23 | 0.85 | 0.028 | Ethyl C | hloride |
| Trichloromonofl | uoromethane | N.D. | N.D. | 30 | 210 | 0 | 0 | Freon 1 | 1 |
| 1,1-Dichloroeth | ene | N.D. | N.D. | 1 | 4 | 0 | 0 | Vinylide | ene Chloride |
| Methylene Chlo | ride | N.D. | N.D. | 1 | 3.5 | 0 | 0 | Dichlor | omethane |
| 1,1,2-Trichloroti | rifluoroethane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Freon 1 | 13 |
| 1,1-Dichloroeth | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | |
| Cis 1,2-Dichlor | oethylene | N.D. | N.D. | 1 | 4 | 0 | 0 | cis-1,2- | Dichloroethene |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0.882 | 0.003 | Trichlor | omethane |
| 1,2-Dichloroeth | ane | N.D. | N.D. | 5 | 20 | 0.786 | 0.005 | Ethyler | ne Dichloride |
| 1,1,1-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | Methyl | Chloroform |
| Benzene | | N.D. | N.D. | 1 | 3.2 | 0.894 | 0.115 | | |
| Carbon Tetrach | loride | N.D. | N.D. | 1 | 6.3 | 0.926 | 0.118 | Tetrach | loromethane |
| 1,2-Dichloropro | pane | N.D. | N.D. | 1 | 4.6 | 0 | 0 | Propyle | ne Dichloride |
| Trichloroethyler | ne | N.D. | N.D. | 1 | 5.4 | 0 | 0 | Trichlor | oethene |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| trans-1,3-Dichlo | ropropene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| 1,1,2-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | |
| Toluene | | 0.5 | 2.1 | 1 | 3.8 | 0.999 | 0.52 | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethyler | ne Dibromide |
| Tetrachloroethy | lene | N.D. | N.D. | 1 | 6.8 | 0 | 0 | Perchlo | roethylene |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.977 | 0.171 | | |
| p/m-Xylene (se | e note) | N.D. | N.D. | 1 | 4.3 | 0.979 | 0.233 | | |
| Styrene | | 0.8 | 3.6 | 1 | 4.3 | 1 | 0.572 | Vinyl b | enzene |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.867 | 0.107 | | |
| 1,1,2,2-Tetrach | loroethane | N.D. | N.D. | 5 | 34 | 0 | 0 | | |
| 1,3,5-Trimethyll | benzene | N.D. | N.D. | 5 | 25 | 0.996 | 0.204 | Mesityl | ene |
| 1,2,4-Trimethyll | benzene | N.D. | N.D. | 5 | 25 | 0.996 | 0.204 | | |
| 1,3-Dichloroben | zene (meta) | N.D. | N.D. | 5 | 30 | 0 | 0 | m- Dic | hlorobenzene |
| 1,2-Dichlorober | zene (ortho) | N.D. | N.D. | 5 | 30 | 0 | 0 | o – Dic | hlorobenzene |
| 1,4-Dichlorober | zene (para) | N.D. | N.D. | 5 | 30 | 0 | 0 | p – Dic | hlorobenzene |
| 1,2,4-Trichlorob | enzene | N.D. | N.D. | 5 | 37 | 0 | 0 | | |
| HexachloroButa | adiene | N.D. | N.D. | 5 | 53 | 0 | 0 | | |
| Concentration f | or combined p- | & m- Xylen | es could be | up to twice | e the listed | value, due | to co-elutio | n conditi | ons. |
| Instrument: HAP | SITE Smart Plu | s GC/MS | Quality Cont | rol: 3-6 point | cal w/ %RS | SD<30, Intern | al Stds, daily | blank, dai | ily cal check |
| N.D. = Not Detec | | | _ | | | | | | libration: 3/31/1 |
| Peak Fit=agreemer | | | | | | | | 0.85 very | likely match |
| COMMENTS: | - | - | - | | | | | | |
| | | | | | | | | | |

| MassDEP Fiel | d Assessmen | t and Sup | port Tean | n (FAST) | AIR S | CREENING | DATA | RTN: | 3-19174 |
|-------------------|---------------|-------------|-------------------|----------------|-------------------|--------------|----------------|-----------|-------------------|
| City or Town: | Framingham | | Address: | 133 Lelai | nd Street | | | | Location: |
| Date Sampled: | 8/6/12 | Time: | 2:50 PM | Field ID: | tank | Collector: | Fitzgeral | d | 50 ft SE of |
| Date Analyzed: | 8/6/12 | Time: | 3:04 PM | Lab ID: | 007 | Analyst: | Fitzgeral | d | tank farm |
| | | Concer | ntration | Reporti | ng Limit | Peak Fit | Peak | | D |
| Method Analyt | es | ppbV | μg/m ³ | ppbV | μg/m ³ | Peak Fit | Purity | ' | Synonym |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0 | 0 | Chloroe | thene |
| Bromomethane | | N.D. | N.D. | 5 | 22 | 0.999 | 0.018 | Methyl | Bromide |
| Chloroethane | | 3.9 | 10.2 | 5 | 23 | 0.98 | 0.127 | Ethyl C | hloride |
| Trichloromonoflu | uoromethane | N.D. | N.D. | 30 | 210 | 0 | 0 | Freon 1 | 1 |
| 1,1-Dichloroethe | ene | N.D. | N.D. | 1 | 4 | 0 | 0 | Vinylide | ene Chloride |
| Methylene Chlo | ride | N.D. | N.D. | 1 | 3.5 | 0.541 | 0.027 | Dichlor | omethane |
| 1,1,2-Trichlorotr | ifluoroethane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Freon 1 | 13 |
| 1,1-Dichloroetha | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | |
| Cis 1,2-Dichloro | ethylene | N.D. | N.D. | 1 | 4 | 0.458 | 0.004 | cis-1,2- | Dichloroethene |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0 | 0 | Trichlor | omethane |
| 1,2-Dichloroetha | ane | N.D. | N.D. | 5 | 20 | 0.703 | 0.004 | Ethyler | e Dichloride |
| 1,1,1-Trichloroe | thane | 0.2 | 1.1 | 1 | 5.5 | 0.999 | 0.197 | Methyl | Chloroform |
| Benzene | | N.D. | N.D. | 1 | 3.2 | 0.995 | 0.17 | | |
| Carbon Tetrachl | oride | N.D. | N.D. | 1 | 6.3 | 0.724 | 0.036 | Tetrach | loromethane |
| 1,2-Dichloroprop | pane | N.D. | N.D. | 1 | 4.6 | 0 | 0 | Propyle | ne Dichloride |
| Frichloroethylen | | 0.6 | 3.0 | 1 | 5.4 | 0.989 | 0.547 | | oethene |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| trans-1,3-Dichlo | | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| 1,1,2-Trichloroe | | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | |
| Toluene | | 0.3 | 1.2 | 1 | 3.8 | 0.998 | 0.466 | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethyler | e Dibromide |
| Tetrachloroethy | lene | 0.6 | 4.3 | 1 | 6.8 | 0.974 | 0.792 | | roethylene |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.939 | 0.172 | | |
| p/m-Xylene (see | note) | N.D. | N.D. | 1 | 4.3 | 0.998 | 0.315 | | |
| Styrene | , | 1.1 | 4.7 | 1 | 4.3 | 0.999 | 0.55 | Vinyl b | enzene |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.892 | 0.119 | | |
| 1,1,2,2-Tetrachl | oroethane | N.D. | N.D. | 5 | 34 | 0.642 | 0.018 | | |
| 1,3,5-Trimethylk | | N.D. | N.D. | 5 | 25 | 0.967 | 0.207 | Mesityl | ene |
| 1,2,4-Trimethylk | | N.D. | N.D. | 5 | 25 | 0.998 | 0.231 | | |
| 1,3-Dichloroben | | N.D. | N.D. | 5 | 30 | 0 | 0 | m- Dic | hlorobenzene |
| 1,2-Dichloroben | , , | N.D. | N.D. | 5 | 30 | 0 | 0 | | hlorobenzene |
| 1,4-Dichloroben | zene (para) | N.D. | N.D. | 5 | 30 | 0 | 0 | p – Dic | hlorobenzene |
| 1,2,4-Trichlorob | | N.D. | N.D. | 5 | 37 | 0 | 0 | - | |
| HexachloroButa | | N.D. | N.D. | 5 | 53 | 0 | 0 | | |
| Concentration for | | | | | | value, due | to co-elutio | n conditi | ons. |
| nstrument: HAP | | | | | | | al Stds, daily | | |
| V.D. = Not Detec | | | | | | | | | libration: 3/31/1 |
| eak Fit=agreemen | | | | | | | | 1 | |
| agreemen | opoonal date | ando, i ouk | . army - moorn | . Jiioo iioiii | - John Ling Ot | pourido. I I | . o.o anoly, a | 2.00 1019 | ory maton |

| | ld Assessmen | | <u> </u> | • | | CREENING | DAIA | RTN: | 3-19174 |
|-------------------|----------------|------------|--------------|----------------|--------------|---------------|----------------|------------|-------------------|
| City or Town: | Framingham | 1 | Address: | 133 Lelai | nd Street | | | | Location: |
| Date Sampled: | 8/6/12 | Time: | 3:30 PM | Field ID: | SE | Collector: | Fitzgerald | i | SE corner of |
| Date Analyzed: | 8/6/12 | Time: | 3:41 PM | Lab ID: | 800 | Analyst: | Fitzgerald | i | site |
| Method Analy | tos | Concer | ntration | Reporti | _ | Peak Fit | Peak | | Synonym |
| Wethou Analy | ies | ppbV | μg/m³ | ppbV | μg/m³ | reakiit | Purity | · · | Synonym |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0 | 0 | Chloroe | thene |
| Bromomethane | | N.D. | N.D. | 5 | 22 | 0.837 | 0.016 | Methyl | Bromide |
| Chloroethane | | N.D. | N.D. | 5 | 23 | 0.975 | 0.073 | Ethyl C | |
| Trichloromonofl | uoromethane | N.D. | N.D. | 30 | 210 | 0.943 | 0.04 | Freon 1 | 1 |
| 1,1-Dichloroeth | ene | N.D. | N.D. | 1 | 4 | 0 | 0 | Vinylide | ene Chloride |
| Methylene Chlo | oride | N.D. | N.D. | 1 | 3.5 | 0 | 0 | Dichlor | omethane |
| 1,1,2-Trichlorot | rifluoroethane | N.D. | N.D. | 1 | 7.7 | 0.82 | 0.035 | Freon 1 | 13 |
| 1,1-Dichloroeth | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | |
| Cis 1,2-Dichlor | oethylene | N.D. | N.D. | 1 | 4 | 0.942 | 0.031 | cis-1,2- | Dichloroethen |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0 | 0 | Trichlor | omethane |
| 1,2-Dichloroeth | ane | N.D. | N.D. | 5 | 20 | 0.598 | 0.003 | Ethylen | e Dichloride |
| 1,1,1-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | Methyl | Chloroform |
| Benzene | | N.D. | N.D. | 1 | 3.2 | 0 | 0 | | |
| Carbon Tetrach | loride | N.D. | N.D. | 1 | 6.3 | 0.787 | 0.094 | Tetrach | loromethane |
| 1,2-Dichloropro | pane | N.D. | N.D. | 1 | 4.6 | 0 | 0 | Propyle | ne Dichloride |
| Trichloroethyler | ne | N.D. | N.D. | 1 | 5.4 | 0.695 | 0.063 | Trichlor | oethene |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| trans-1,3-Dichlo | propropene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| 1,1,2-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | |
| Toluene | | 0.3 | 1.0 | 1 | 3.8 | 0.997 | 0.396 | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethylen | ie Dibromide |
| Tetrachloroethy | lene | N.D. | N.D. | 1 | 6.8 | 0 | 0 | Perchlo | roethylene |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.936 | 0.182 | | |
| p/m-Xylene (se | e note) | N.D. | N.D. | 1 | 4.3 | 0.967 | 0.206 | | |
| Styrene | | 1.0 | 4.4 | 1 | 4.3 | 1 | 0.603 | Vinyl b | enzene |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.973 | 0.207 | | |
| 1,1,2,2-Tetrach | loroethane | N.D. | N.D. | 5 | 34 | 0 | 0 | | |
| 1,3,5-Trimethyl | benzene | N.D. | N.D. | 5 | 25 | 0.962 | 0.152 | Mesityl | ene |
| 1,2,4-Trimethyl | benzene | N.D. | N.D. | 5 | 25 | 0.999 | 0.194 | | |
| 1,3-Dichlorober | zene (meta) | N.D. | N.D. | 5 | 30 | 0.638 | 0.025 | m- Dic | hlorobenzene |
| 1,2-Dichlorober | zene (ortho) | N.D. | N.D. | 5 | 30 | 0.669 | 0.026 | o – Dic | hlorobenzene |
| 1,4-Dichlorober | zene (para) | N.D. | N.D. | 5 | 30 | 0.63 | 0.025 | p – Dic | hlorobenzene |
| 1,2,4-Trichlorob | enzene | N.D. | N.D. | 5 | 37 | 0 | 0 | | |
| HexachloroButa | adiene | N.D. | N.D. | 5 | 53 | 0 | 0 | | |
| Concentration f | or combined p- | & m- Xylen | es could be | up to twice | e the listed | value, due | to co-elution | n conditi | ons. |
| Instrument: HAF | SITE Smart Plu | ıs GC/MS | Quality Cont | rol: 3-6 point | cal w/ %R9 | SD<30, Intern | al Stds, daily | blank, dai | lv cal check |
| N.D. = Not Dete | | | | | | | | | libration: 3/31/1 |
| Peak Fit=agreemer | | | | | | | | | |
| COMMENTS: | F | | , | | | | | , | |
| CIMINIEN 13: | | | | | | | | | |

| MassDEP Fiel | d Assessmen | t and Sup | port Tean | n (FAST) | AIR S | CREENING | DATA | RTN: | 3-19174 |
|-------------------------------|----------------|-------------|--------------|----------------|--------------|---------------|----------------|-----------|--------------------|
| City or Town: | Framingham | | Address: | 133 Lela | nd Street | | | | Location: |
| Date Sampled: | 8/6/12 | Time: | 4:10 PM | Field ID: | Rack | Collector: | Fitzgeral | d | Loading Rack |
| Date Analyzed: | 8/6/12 | Time: | 4:21 AM | Lab ID: | 009 | | Fitzgeral | | Area |
| 0.0 - 4 0 | | Concer | ntration | Reporti | ng Limit | Deels Ea | Peak | | C |
| Method Analyt | tes | ppbV | μg/m³ | ppbV | μg/m³ | Peak Fit | Purity | | Synonym |
| Vinyl Chloride | | N.D. | N.D. | 5 | 13 | 0 | 0 | Chloroe | ethene |
| Bromomethane | | N.D. | N.D. | 5 | 22 | 0 | 0 | Methyl | Bromide |
| Chloroethane | | N.D. | N.D. | 5 | 23 | 0.76 | 0.053 | Ethyl C | hloride |
| Trichloromonoflu | uoromethane | N.D. | N.D. | 30 | 210 | 0.774 | 0.011 | Freon 1 | 11 |
| 1,1-Dichloroethe | ene | N.D. | N.D. | 1 | 4 | 0 | 0 | Vinylide | ene Chloride |
| Methylene Chlo | ride | N.D. | N.D. | 1 | 3.5 | 0 | 0 | Dichlor | omethane |
| 1,1,2-Trichlorotr | ifluoroethane | N.D. | N.D. | 1 | 7.7 | 0.684 | 0.029 | Freon 1 | 113 |
| 1,1-Dichloroetha | ane | N.D. | N.D. | 1 | 4.1 | 0 | 0 | | |
| Cis 1,2-Dichloro | ethylene | N.D. | N.D. | 1 | 4 | 0 | 0 | cis-1,2- | -Dichloroethene |
| Chloroform | | N.D. | N.D. | 1 | 4.9 | 0 | 0 | Trichlor | omethane |
| 1,2-Dichloroetha | ane | N.D. | N.D. | 5 | 20 | 0 | 0 | Ethyler | ne Dichloride |
| 1,1,1-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0.739 | 0.013 | Methyl | Chloroform |
| Benzene | | N.D. | N.D. | 1 | 3.2 | 0 | 0 | | |
| Carbon Tetrachl | loride | N.D. | N.D. | 1 | 6.3 | 0.967 | 0.072 | Tetrach | loromethane |
| 1,2-Dichloroprop | pane | N.D. | N.D. | 1 | 4.6 | 0 | 0 | Propyle | ene Dichloride |
| Trichloroethylen | ie | N.D. | N.D. | 1 | 5.4 | 0 | 0 | Trichlor | oethene |
| cis-1,3-Dichloro | propene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| trans-1,3-Dichlo | ropropene | N.D. | N.D. | 1 | 4.5 | 0 | 0 | | |
| 1,1,2-Trichloroe | thane | N.D. | N.D. | 1 | 5.5 | 0 | 0 | | |
| Toluene | | 0.7 | 2.6 | 1 | 3.8 | 0.997 | 0.607 | | |
| 1,2-Dibromoeth | ane | N.D. | N.D. | 1 | 7.7 | 0 | 0 | Ethyler | ne Dibromide |
| Tetrachloroethy | lene | N.D. | N.D. | 1 | 6.8 | 0.882 | 0.398 | Perchlo | roethylene |
| Chlorobenzene | | N.D. | N.D. | 1 | 4.6 | 0 | 0 | | |
| Ethylbenzene | | N.D. | N.D. | 1 | 4.3 | 0.971 | 0.241 | | |
| p/m-Xylene (see | e note) | N.D. | N.D. | 1 | 4.3 | 0.854 | 0.178 | | |
| Styrene | | 0.8 | 3.4 | 1 | 4.3 | 0.999 | 0.553 | Vinyl b | enzene |
| o-Xylene | | N.D. | N.D. | 1 | 4.3 | 0.972 | 0.262 | | |
| 1,1,2,2-Tetrachl | oroethane | N.D. | N.D. | 5 | 34 | 0.949 | 0.022 | | |
| 1,3,5-Trimethylb | penzene | N.D. | N.D. | 5 | 25 | 0.984 | 0.253 | Mesityl | ene |
| 1,2,4-Trimethylk | penzene | N.D. | N.D. | 5 | 25 | 0.988 | 0.254 | | |
| 1,3-Dichloroben | zene (meta) | N.D. | N.D. | 5 | 30 | 0 | 0 | m- Dic | hlorobenzene |
| 1,2-Dichloroben | zene (ortho) | N.D. | N.D. | 5 | 30 | 0 | 0 | o – Dic | hlorobenzene |
| 1,4-Dichloroben | zene (para) | N.D. | N.D. | 5 | 30 | 0 | 0 | p – Dic | hlorobenzene |
| 1,2,4-Trichlorob | enzene | N.D. | N.D. | 5 | 37 | 0 | 0 | | |
| HexachloroButa | ndiene | N.D. | N.D. | 5 | 53 | 0 | 0 | | |
| ¹ Concentration fo | or combined p- | & m- Xylen | es could be | up to twic | e the listed | value, due | to co-elutio | n conditi | ons. |
| Instrument: HAP: | SITE Smart Plu | s GC/MS | Quality Cont | rol: 3-6 point | t cal w/ %R | SD<30, Intern | al Stds, daily | blank, da | ily cal check |
| N.D. = Not Detec | ted Italicized | = estimated | | | | | | | libration: 3/31/11 |

Peak Fit=agreement w/ spectral database; Peak Purity=interference from coeluting compounds. Fit >0.5 likely, >0.85 very likely match

COMMENTS: